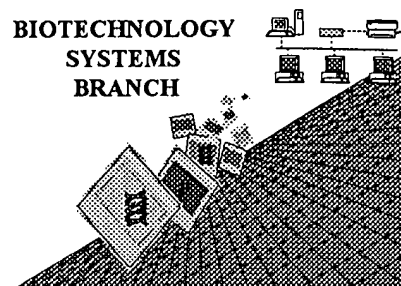


L. Helms

RAW SEQUENCE LISTING **ERROR REPORT**

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: 09/359326
Art Unit / Team No. : 1642
Date Processed by STIC: 2/10/2000

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,

2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

MARK SPENCER 703-308-4212

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/359326

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 Wrapped Aminos The amino acid number/text at the end of each line "wrapped " down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 Misaligned Amino Acid The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
Numbering between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 Variable Length Sequence(s) contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.
- 7 PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) . Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence.
- 8 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(OLD RULES) (2) INFORMATION FOR SEQ ID NO:X:
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
(NEW RULES) <210> sequence id number
<400> sequence id number
000
- 10 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 Use of <213>Organism Sequence(s) are missing this mandatory field or its response.
(NEW RULES)
- 12 Use of <220>Feature Sequence(s) are missing the <220>Feature and associated headings.
(NEW RULES) Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

C. Helms

1642

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/359,326

DATE: 02/10/2000
TIME: 12:28:17

Input Set: I359326.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

Does Not Comply
Corrected Diskette Needed

1 <110> APPLICANT: Reiter, Robert E.
2 Witte, Owen N.
3 <120> TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
4 <130> FILE REFERENCE: 30435.54USI4
5 <140> CURRENT APPLICATION NUMBER: US/09/359,326
6 <141> CURRENT FILING DATE: 1999-07-20
7 <150> EARLIER APPLICATION NUMBER: 09/038,261
8 <151> EARLIER FILING DATE: 1998-03-10
9 <150> EARLIER APPLICATION NUMBER: 09/203,939
10 <151> EARLIER FILING DATE: 1998-12-02
11 <150> EARLIER APPLICATION NUMBER: 09/251,835
12 <151> EARLIER FILING DATE: 1999-02-17
13 <150> EARLIER APPLICATION NUMBER: 09/308,503
14 <151> EARLIER FILING DATE: 1999-05-17
15 <160> NUMBER OF SEQ ID NOS: 15
16 <170> SOFTWARE: PatentIn Ver. 2.0
17 <210> SEQ ID NO 1
18 <211> LENGTH: 998
19 <212> TYPE: DNA
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23 tgcagccagg cactgccctg ctgtgctact cctgcaaagc ccaggtgagc aacgaggact 120
24 gcctgcaggt ggagaactgc acccagctgg gggagcagtg ctggaccgcg cgcacccgcg 180
25 cagttggcct cctgaccgtc atcagcaaag gctgcagctt gaactgcgtg gatgacttac 240
26 aggactacta cgtgggcaag aagaacatca cgtgctgtga caccgacttg tgcaacgcca 300
27 gcggggccca tgccctgcag ccggctgccg ccacccctgc gctgctccct gcaactcgcc 360
28 tgctgctctg gggacccggc cagctatagg ctctgggggg ccccgctgca gccacactg 420
29 ggtgtggtgc cccaggcctt tgtgccactc ctcacagaac ctggcccagt gggagcctgt 480
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34 ccaccccat tattaattga gccaggtttg gtccgtggtg tccccgcac ccagcagggg 780
35 acaggcaatc aggagggccc agtaaaggct gagatgaagt ggactgagta gaactggagg 840
36 acaagagttg acgtgagttc ctgggagttt ccagagatgg ggctggagg cctggaggaa 900
37 ggggccaggc ctcacatttg tggggatccc gaatggcagc ctgagcacag cgtaggccct 960
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39 <210> SEQ ID NO 2
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41 <212> TYPE: PRT
42 <213> ORGANISM: human PSCA (hPSCA)
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44 Met Lys Ala Val Leu Leu Ala Leu Leu Met Ala Gly Leu Ala Leu Gln

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/359,326

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45          1          5          10          15
46    Pro Gly Thr Ala Leu Leu Cys Tyr Ser Cys Lys Ala Gln Val Ser Asn
47          20          25          30
48    Glu Asp Cys Leu Gln Val Glu Asn Cys Thr Gln Leu Gly Glu Gln Cys
49          35          40          45
50    Trp Thr Ala Arg Ile Arg Ala Val Gly Leu Leu Thr Val Ile Ser Lys
51          50          55          60
52    Gly Cys Ser Leu Asn Cys Val Asp Asp Ser Gln Asp Tyr Tyr Val Gly
53          65          70          75          80
54    Lys Lys Asn Ile Thr Cys Cys Asp Thr Asp Leu Cys Asn Ala Ser Gly
55          85          90          95
56    Ala His Ala Leu Gln Pro Ala Ala Ala Ile Leu Ala Leu Leu Pro Ala
57          100          105          110
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59          115          120
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67    tgcagcctgg accagcacag ttgctttaca tcgcgcatcc gggccattgg actcgtgaca 180
68    gttatcagta agggctgcag ctcacagtgt gaggatgact cggagaacta ctatttgggc 240
69    aagaagaaca tcacgtgctg ctactctgac ctgtgcaatg tcaacggggc ccacaccctg 300
70    agccgtctgt aggtctctggg agagcctacc atagcccgat tgtgaaggga tgagctgcac 360
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72    tccaccccac cccacacag g 441
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75    <212> TYPE: PRT
76    <213> ORGANISM: murine PSCA (mPSCA)
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80    Pro Gly Ala Ala Leu Gln Cys Tyr Ser Cys Thr Ala Gln Met Asn Asn
81          20          25          30
82    Arg Asp Cys Leu Asn Val Gln Asn Cys Ser Leu Asp Gln His Ser Cys
83          35          40          45
84    Phe Thr Ser Arg Ile Arg Ala Ile Gly Leu Val Thr Val Ile Ser Lys
85          50          55          60
86    Gly Cys Ser Ser Gln Cys Glu Asp Asp Ser Glu Asn Tyr Tyr Leu Gly
87          65          70          75          80
88    Lys Lys Asn Ile Thr Cys Cys Tyr Ser Asp Leu Cys Asn Val Asn Gly
89          85          90          95
90    Ala His Thr Leu Lys Pro Pro Thr Thr Leu Gly Leu Leu Thr Val Leu
91          100          105          110
92    Cys Ser Leu Leu Leu Trp Gly Ser Ser Arg Leu
93          115          120
94    <210> SEQ ID NO 5

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/359,326

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96 <212> TYPE: PRT
97 <213> ORGANISM: Human Stem Cell Antigen-2 (hSCA-2)
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101   Pro Ala Ser Ser Leu Met Cys Phe Ser Cys Leu Asn Gln Lys Ser Asn
102             20             25             30
103   Leu Tyr Cys Leu Lys Pro Thr Ile Cys Ser Asp Gln Asp Asn Tyr Cys
104             35             40             45
105   Val Thr Val Ser Ala Ser Ala Gly Ile Gly Asn Leu Val Thr Phe Gly
106             50             55             60
107   His Ser Leu Ser Lys Thr Cys Ser Pro Ala Cys Pro Ile Pro Glu Gly
108             65             70             75             80
109   Val Asn Val Gly Val Ala Ser Met Gly Ile Ser Cys Cys Gln Ser Phe
110             85             90             95
111   Leu Cys Asn Phe Ser Ala Ala Asp Gly Gly Leu Arg Ala Ser Val Thr
112             100            105            110
113   Leu Leu Gly Ala Gly Leu Leu Leu Ser Leu Leu Pro Ala Leu Leu Arg
114             115            120            125
115   Phe Gly Pro
116             130
117 <210> SEQ ID NO 6
118 <211> LENGTH: 123
119 <212> TYPE: PRT
120 <213> ORGANISM: human PSCA (hPSCA)
121 <400> SEQUENCE: 6
122   Met Lys Ala Val Leu Leu Ala Leu Leu Met Ala Gly Leu Ala Leu Gln
123      1             5             10             15
124   Pro Gly Thr Ala Leu Leu Cys Tyr Ser Cys Lys Ala Gln Val Ser Asn
125             20             25             30
126   Glu Asp Cys Leu Gln Val Glu Asn Cys Thr Gln Leu Gly Glu Gln Cys
127             35             40             45
128   Trp Thr Ala Arg Ile Arg Ala Val Gly Leu Leu Thr Val Ile Ser Lys
129             50             55             60
130   Gly Cys Ser Leu Asn Cys Val Asp Asp Ser Gln Asp Tyr Tyr Val Gly
131             65             70             75             80
132   Lys Lys Asn Ile Thr Cys Cys Asp Thr Asp Leu Cys Asn Ala Ser Gly
133             85             90             95
134   Ala His Ala Leu Gln Pro Ala Ala Ala Ile Leu Ala Leu Leu Pro Ala
135             100            105            110
136   Leu Gly Leu Leu Leu Trp Gly Pro Gly Gln Leu
137             115            120
138 <210> SEQ ID NO 7
139 <211> LENGTH: 123
140 <212> TYPE: PRT
141 <213> ORGANISM: murine PSCA (mPSCA)
142 <400> SEQUENCE: 7
143   Met Lys Thr Val Leu Phe Leu Leu Leu Ala Thr Tyr Leu Ala Leu His
144      1             5             10             15

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145      Pro Gly Ala Ala Leu Gln Cys Tyr Ser Cys Thr Ala Gln Met Asn Asn
146              20              25              30
147      Arg Asp Cys Leu Asn Val Gln Asn Cys Ser Leu Asp Gln His Ser Cys
148              35              40              45
149      Phe Thr Ser Arg Ile Arg Ala Ile Gly Leu Val Thr Val Ile Ser Lys
150              50              55              60
151      Gly Cys Ser Ser Gln Cys Glu Asp Asp Ser Glu Asn Tyr Tyr Leu Gly
152              65              70              75              80
153      Lys Lys Asn Ile Thr Cys Cys Tyr Ser Asp Leu Cys Asn Val Asn Gly
154              85              90              95
155      Ala His Thr Leu Lys Pro Pro Thr Thr Leu Gly Leu Leu Thr Val Leu
156              100             105             110
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158              115             120
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161      <212> TYPE: DNA
162      <213> ORGANISM: murine PSCA (mPSCA)
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166      <211> LENGTH: 20
167      <212> TYPE: DNA
168      <213> ORGANISM: murine PSCA (mPSCA)
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173      <212> TYPE: DNA
174      <213> ORGANISM: SCID Mice
175      <400> SEQUENCE: 10
176      tgcttcttcc tgatggcagt ggttatagga gtcaattcag aggttcagct gcagcagtct 60
177      ggggcagaac ttgtgagggtc aggggcctca gtcaagttgt cctgcacagc ttctggcttc 120
178      aacattaaag actactatat acactgggtg aatcagaggc ctgaccaggg cctggagtgg 180
179      attggatgga ttgatcctga gaatggtgac actgaatttg tcccgaagtt ccagggcaag 240
180      gccactatga ctgcagacat tttctccaac acagcctacc tgcacctcag cagcctgaca 300
181      tctgaagaca ctgccgtcta ttactgtaaa acgggggggtt tctggggcca agggactctg 360
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184      <211> LENGTH: 136
185      <212> TYPE: PRT
186      <213> ORGANISM: SCID Mice
187      <400> SEQUENCE: 11
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189      1              5              10              15
190      Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Ser Gly Ala Ser Val Lys
191              20              25              30
192      Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Tyr Tyr Ile His
193              35              40              45
194      Trp Val Asn Gln Arg Pro Asp Gln Gly Leu Glu Trp Ile Gly Trp Ile

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RAW SEQUENCE LISTING
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Input Set: I359326.RAW

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195          50          55          60
196    Asp Pro Glu Asn Gly Asp Thr Glu Phe Val Pro Lys Phe Gln Gly Lys
197          65          70          75          80
198    Ala Thr Met Thr Ala Asp Ile Phe Ser Asn Thr Ala Tyr Leu His Leu
199          85          90          95
200    Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys Lys Thr Gly
201          100          105          110
202    Gly Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala Ala Lys Thr
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207    <211> LENGTH: 426
208    <212> TYPE: DNA
209    <213> ORGANISM: SCID Mice
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212    ctggtgaggg ctggaacttc agtgaagctg tcctgcaagg cttctggcta tacattctcc 120
213    agctactgga tgcactgggt gaagcagagg cctggacaag gccttgagtg gattggaaat 180
214    attgaccctg gtagtgggta cactaactac gctgagaacc tcaagaccaa ggccacactg 240
215    actgtagaca catcctccag cacagcctac atgcagctca gcagcctgac atctgaggac 300
216    tctgcagtct attactgtac aagccgatct actatgatta cgacgggatt tgcttactgg 360
217    ggccaaggga ctctgggtcac tgtctctgca gctacaacaa cagcccatc tgtctatcca 420
218    ctggcc 426
219    <210> SEQ ID NO 13
220    <211> LENGTH: 142
221    <212> TYPE: PRT
222    <213> ORGANISM: SCID Mice
223    <400> SEQUENCE: 13
224    Leu Val Ala Thr Ala Ser Asp Val His Ser Gln Val Gln Leu Gln Gln
225          1          5          10          15
226    Pro Gly Ser Glu Leu Val Arg Pro Gly Thr Ser Val Lys Leu Ser Cys
227          20          25          30
228    Lys Ala Ser Gly Tyr Thr Phe Ser Ser Tyr Trp Met His Trp Val Lys
229          35          40          45
230    Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly Asn Ile Asp Pro Gly
231          50          55          60
232    Ser Gly Tyr Thr Asn Tyr Ala Glu Asn Leu Lys Thr Lys Ala Thr Leu
233          65          70          75          80
234    Thr Val Asp Thr Ser Ser Ser Thr Ala Tyr Met Gln Leu Ser Ser Leu
235          85          90          95
236    Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys Thr Ser Arg Ser Thr Met
237          100          105          110
238    Ile Thr Thr Gly Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
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240    Ser Ala Ala Thr Thr Thr Ala Pro Ser Val Tyr Pro Leu Ala
241          130          135          140
242    <210> SEQ ID NO 14
243    <211> LENGTH: 453
244    <212> TYPE: DNA

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Input Set: I359326.RAW

Line	? Error/Warning	Original Text
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32	W "N" or "Xaa" used: Feature required	tganacanat ccgcntgcag atggcccctc caaccntt
33	W "N" or "Xaa" used: Feature required	agcattttcc acccttaacc ctgtgttcag gcacttnt